

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS FO Box 1430 Alexandria, Virginia 22313-1450 www.tepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/561,847	08/09/2006	Carlos Martins	1200.746	2995
Berenato Whit	7590 04/03/200 e. & Stavish	8	EXAM	UNER
Suite 240			WALBERG, TERESA J	
6550 Rock Spi Bethesda, MD		ART UNIT	PAPER NUMBER	
,			3744	
			MAIL DATE	DELIVERY MODE
			04/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.	Applicant(s)	
10/561,847	MARTINS ET AL.	
Examiner	Art Unit	
Teresa J. Walberg	3744	

	Teresa J. vvalberg	3/44				
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the o	correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MALING DA Extensions of time may be available under the provisions of 37 CFR 1:19 after SIX (6) IXCNT18 from the making date of this communication.  I Failure to reply within the act or extended period for reply with 94 statute. Any reply received by the Office later than three months after the mailing earned patter term delighteners. See 37 CFR 1:70/e(s).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim Il apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on						
2a) This action is <b>FINAL</b> . 2b) This a	action is non-final.					
<ol> <li>Since this application is in condition for allowan</li> </ol>	ce except for formal matters, pro	secution as to the	merits is			
closed in accordance with the practice under Ex	k parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) 1-16 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	n from consideration.					
<ol><li>Claim(s) is/are allowed.</li></ol>						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10)⊠ The drawing(s) filed on <u>09 August 2006</u> is/are: a)⊠ accepted or b)  objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form P7	ГО-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign  a) All b) Some * c) None of:	oriority under 35 U.S.C. § 119(a	)-(d) or (f).				
<ol> <li>Certified copies of the priority documents</li> </ol>	have been received.					
<ol><li>Certified copies of the priority documents</li></ol>	have been received in Applicati	on No				
<ol><li>Copies of the certified copies of the priori</li></ol>	ty documents have been receive	ed in this National	Stage			
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.				
U						
Attachment(s)	4) Interview Summers	(PTO.413)				

- | Notice of Draftsperson's Patent Drawing Review (PTO-948)
  | Notice of Draftsperson's Patent Drawing Review (PTO-948)
  | Information Disclosure Statement(s) (PTO/S5/C8)
  - Paper No(s)/Mail Date 8/9/06.

Application/Control Number: 10/561,847 Page 2

Art Unit: 3744

## DETAILED ACTION

Claim 5 is objected to because of the following informalities: at line 2, "4" should

be deleted. Appropriate correction is required.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

3. Claims 1 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by

Marcolin (4,923,001).

Marcolin discloses a cooling module including two separate cooling

sections (Fig. 2) that would be capable of use as a charge air cooler and a

recirculated exhaust gas cooler, the cooling sections each including a heat

exchange bundle (Fig. 2), the bundles being made of aluminum and/or aluminum

alloy (col. 2, line 44), the bundles being held together by brazing (col. 3, lines 12-

13), the bundles being capable of having been assembled in a single brazing operation. Note that "assembled in a single brazing operation" is considered to

be a product by process limitation, and as such is met if the structure could have

been made by the claimed process, whether it actually was or not.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

Application/Control Number: 10/561,847

Art Unit: 3744

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 2-13, 15, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marcolin (4,923,001) in view of Schwarz et al (6,105,668).

Marcolin discloses a cooling module as claimed with the exception of a wrapper housing the cooler bundles. Schwarz et al discloses a cooling module having a wrapper (Fig. 1) that encloses the heat exchanger, the wrapper having rims assembled with the header boxes (Fig. 1), and including two half casings capable of sliding with respect to each other (Figs. 3 and 4), the half casings having U shaped cross sections (Figs. 3 and 4). It would have been obvious in view of Schwarz et al to provide a wrapper for the heat exchanger of Marcolin, the motivation being to make the assembly more rigid and to better protect it from damage.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lefeber, Tran, Stark, and Banzhaf et al are cited to show heat exchangers with housings.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa J. Walberg whose telephone number is 571-272-4790. The examiner can normally be reached on M-F 8:00 - 4:30. Application/Control Number: 10/561,847 Page 4

Art Unit: 3744

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Teresa J. Walberg/ Primary Examiner, Art Unit 3744

/TW/